

FYCS/SEM I/REG/LINUX OPERATING SYSTEM

Time: 2½ hrs.

Marks:75

- Note:
1. All questions are compulsory with internal choice.
 2. Draw neat diagrams wherever necessary.
 3. Figures to the right indicate full marks.

- Q.1 Answer the following (Any four) (20)**
- (a) Explain the architecture of Linux Operating System.
 - (b) What is Linux Distribution? Explain any five Linux Distros.
 - (c) Write a short note on Shell. Explain the different types of Shells.
 - (d) What is Kernel? Write a note on the responsibilities of Kernel.
 - (e) List and explain any five features of Linux operating system.
 - (f) Explain the Linux File Commands.
- Q.2 Answer the following (Any four) (20)**
- (a) Explain the /etc/passwd file.
 - (b) What is SSH? Explain the working of SSH.
 - (c) Write a short note on root user.
 - (d) Describe the following command:
 - i. ping
 - ii. ifconfig
 - iii. ip
 - iv. netstat
 - v. route
 - (e) Explain the following commands with their syntax:
 - i. sudo
 - ii. mv
 - iii. useradd
 - iv. passwd
 - v. userdel
 - (f) Write a short note on vi editor.
- Q.3 Answer the following (Any four) (20)**
- (a) Write a short note on using multiple commands in Linux.
 - (b) Explain the steps to create and execute shell script file using suitable example.
 - (c) Write a note on cron table. Explain the structure of cron table.
 - (d) Explain the concept of Linux signal handling in detail.
 - (e) Write a short note on man.
 - (f) Write a short note on variables used in shell scripting.
- Q.4 Answer the following (Any five) (15)**
- (a) Differentiate between CLI and GUI Operating System.
 - (b) Define: GNU, GPL and GNOME.
 - (c) Write a short note on Linux groups.
 - (d) Write a shell script program to find the factorial of a number.
 - (e) Comment on Linux Security.
 - (f) Write a short note on Linux aliases.

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